DERWENT-ACC-NO: 1982-85361E

DERWENT-WEEK: 198240

TITLE: Thin wall ceramic tubes forming - includes waxing of mandrel before winding of extruded film of refractory

INVENTOR: CHUBENKO, N G; VAKSER, I A

PRIORITY-DATA: 1979SU-2825891 (October 5, 1979)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 887175 B	December 7, 1981	N/A	004	N/A

INT-CL (IPC): B28B001/30, C04B035/56

ABSTRACTED-PUB-NO: SU 887175B

BASIC-ABSTRACT:

Prevention of warping of hollow ceramic components having thin walls is achieved by extruding the plasticised mass filled with ceramic powder and winding the ribbon on to a mandrel. The latter is removed and the blanks are sintered when the filler is in the form of refractory metal carbides. The mandrel is made of graphite, and a layer of refractory metal carbide followed by a wax layer of saccharose or Wood's alloy are placed on it before the winding. The thickness of the protective layer is 1-10% less than the linear contraction of the ribbon, while the sintering is carried out in vacuum and then the mandrel is removed. Bul.45/7.12.81

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Basic Abstract Text - ABTX (1):

Prevention of warping of hollow ceramic components having thin walls is achieved by extruding the plasticised mass filled with ceramic powder and winding the ribbon on to a mandrel. The latter is removed and the blanks are sintered when the filler is in the form of refractory metal carbides. The mandrel is made of graphite, and a layer of refractory metal carbide followed by a wax layer of saccharose or Wood's alloy are placed on it before the winding. The thickness of the protective layer is 1-10% less than the linear contraction of the ribbon, while the sintering is carried out in vacuum and then the mandrel is removed. Bul.45/7.12.81

Title - TIX (1):

Thin wall ceramic tubes forming - includes waxing of mandrel before winding of extruded film of refractory

Standard Title Terms - TTX (1):

THIN WALL CERAMIC TUBE FORMING WAX MANDREL WIND EXTRUDE FILM REFRACTORY